

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Robert A. DiFazio</td> <td>08/14/2013</td> </tr> <tr> <td>Prabhakar R. Chitrapu</td> <td>07/31/2013</td> </tr> </tbody> </table>		Name	Execution Date	Robert A. DiFazio	08/14/2013	Prabhakar R. Chitrapu	07/31/2013						
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Prabhakar R. Chitrapu	07/31/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>InterDigital Patent Holdings, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>200 Bellevue Parkway</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 300</td> </tr> <tr> <td>City:</td> <td>Wilmington</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19809</td> </tr> </table>		Name:	InterDigital Patent Holdings, Inc.	Street Address:	200 Bellevue Parkway	Internal Address:	Suite 300	City:	Wilmington	State/Country:	DELAWARE	Postal Code:	19809
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CORRESPONDENCE DATA													
Fax Number:	2155585676												
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NAME OF SUBMITTER:	Krysanna See												
Signature:	/Krysanna See/												

Date:

08/21/2013

Total Attachments: 4

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DOCKET NO.: IFUT_11300US02
APPLICATION NO.: 13/907,833

ASSIGNMENT

WHEREAS, we Robert A. DiFazio, residing at 6 Gwendale Lane, Greenlawn, New York 11740 and Prabhakar R. Chitrapu, residing at 135 Brochant Drive, Blue Bell, Pennsylvania 19422, hereinafter referred to as the ASSIGNORS, are joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 13/907,833, filed May 31, 2013, entitled Bandwidth Management (BWM) Operation with Opportunistic Networks; and

WHEREAS, InterDigital Patent Holdings, Inc., hereinafter referred to as the ASSIGNEE, of 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said ASSIGNEE, our entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including our full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application. We further assign to and authorize said ASSIGNEE, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

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AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said ASSIGNEE, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said ASSIGNEE or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said ASSIGNEE, as ASSIGNEE of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

DOCKET NO.: IFUT_11300US02
APPLICATION NO.: 13/907,833

Date 8-14-13 Robert A. DiFazio (L.S.)
Robert A. DiFazio

Signed at Melville, NY USA
(City and Country)

STATEMENT OF WITNESS: I, Miguel Lopez
2 Huntington Quadrangle, 4th Floor Wing
Melville, NY 11747 USA
whose full address is: _____
Address of Witness

was personally present and did see Robert A. DiFazio execute this Assignment on the 14
day of August, 2013 and such Assignor is personally known to me to be the person
described herein

[Signature]
Signature of Witness

DOCKET NO.: IFUT_11300US02
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7/31/2013
Date

Prabhakar Chitrapu (L.S.)
Prabhakar R. Chitrapu

Signed at Blue Bell, PA 19422, USA
(City and Country)

STATEMENT OF WITNESS: I, UMA PRABHAKAR
Name of Witness

whose full address is: 135 Brochant Circle, Blue Bell, PA 19422.
Address of Witness

was personally present and did see Prabhakar Chitrapu execute this Assignment on the 31
day of July, 2013 and such Assignor is personally known to me to be the person
described herein.

Uma Prabhakar
Signature of Witness